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[redacted]

September 24, 1964

STATINTL

DIGITAL READOUT COUNTERS

STATINTL

[redacted]

On the contract for the three 2-axis counters, the first unit is complete and tested and ready for final tests by recording the output on magnetic tape.

The second unit is wired except for the control panel which is in process. Wiring on the third unit is just starting. All the circuit boards are complete including the spares and are being tested in the first unit. On the 4-axis unit, the engineering is complete but manufacturing has not started.

The cable length information has been received by [redacted] On the 2-axis units the cables are various lengths from 18 in. to 3 ft as required for stacking the counters. For the 4-axis unit the cables will be 15 ft long. STATINTL

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John R had some interface difficulty when he hooked STATINTL
STATINTL up the [redacted] reading head, the [redacted] counter delivered STATINTL
on the previous contract, and the dataphones for transmission
STATINTL to the computer. The original problem with the [redacted]
count pulse characteristics has apparently been resolved.
John R measured the pulse shape and sent a diagram
to [redacted] Although it looks to me like a very poor pulse
STATINTL coming out of the [redacted] reading head, [redacted] says STATINTL
they will not have any trouble counting it. STATINTL

The problem presently is at the interface between the [redacted]
counter and the 202B dataphone. John R sent two data-
STATINTL phones to [redacted] has been testing the first 2-axis
STATINTL unit with them. [redacted] quickly found (as had John R
in his work) that it was necessary to jumper the remote control
lead (RC pin 20) and the remote release lead (RR pin 19)
in the counter connector to the dataphone cable. No other
changes were needed and the remaining trouble appears to be
in the interconnection between the transmitting dataphone
and the receiving dataphone. When the chassis of the two data-
phones were grounded together, the counter pulses out of the

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receiving dataphone looked good on the scope. When the two dataphone chassis are not grounded together, a 60-cycle noise modulation appears on the transmission as observed by the scope. It is possible the noise modulation may be the result of the oscilloscope grounding and [redacted] will check this out by making magnetic recordings. He was working on the magnetic recordings today, Thursday, and expects to have an answer tomorrow, Friday. STATINTL

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[redacted] thought that John K might have to resort to magnetic recording to trouble shoot the installation at his shop.

[redacted] STATINTL

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